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	Application No.	Applicant(s)
Notice of Allowability	09/770,541	BANERJEE ET AL.
	Examiner	Art Unit
	Chris C. Chu	2815
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to 7/20/05.		
2. X The allowed claim(s) is/are 18 - 37 (renumbered 37 CFR 1	<u>.126)</u> .	
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amenda 8. ☑ Examiner's Statema	Patent Application (PTO-152) (PTO-413), te
	9.	A. M. Thompson Primary Examiner Technology Center 2800

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05)

DETAILED ACTION

Request for Continued Examination

1. A request for continued examination (RCE) under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 20, 2005 has been entered. An action on the RCE follows.

Response to Amendment

2. Applicant's amendment filed on July 20, 2004 has been received and entered in the case.

REASONS FOR ALLOWANCE

- 3. Claims 18 37 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest, either singularly or in combination, at least a step of modifying parsing the functional description expressed in the interpretive, algorithmic language with at least one variable of unknown type or dimension into an abstract syntax tree; inferring a type and dimension for the variable of unknown type or dimension by analyzing the usage of the variable of unknown type or dimension in the abstract syntax tree; and assigning the inferred type and or dimension to the variable of unknown type or dimension.

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Bowen (U. S. Pub. No. US2002/O100029) teaches a step of modifying parsing the functional description in an abstract syntax tree, inferring a type and dimension and assigning the inferred type and or dimension, but Bowen does not teach such a step of modifying parsing the functional description expressed in the interpretive, algorithmic language with at least one variable of unknown type or dimension into an abstract syntax tree; inferring a type and dimension for the variable of unknown type or dimension by analyzing the usage of the variable of unknown type or dimension in the abstract syntax tree; and assigning the inferred type and or dimension to the variable of unknown type or dimension as set forth in claims 18 - 37.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris C. Chu whose telephone number is 571-272-1724. The examiner can normally be reached on 11:30 - 8:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 517-272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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c.c. Monday, September 26, 2005

A. M. Thompson
Primary Examiner
Technology Center **2**800